

0068931

**SAF-RC-001**  
**Industrial Hygiene Sampling**  
**FINAL DATA**

**NO DISTRIBUTION REQUIRED**

**COMMENTS:**

SDG

06I-0133-01

SAF-RC-001

Rad only

X

Chem only

Rad & Chem

X Complete

Partial

**300 Area 303M Bldg**

**RECEIVED**  
MAR 09 2006

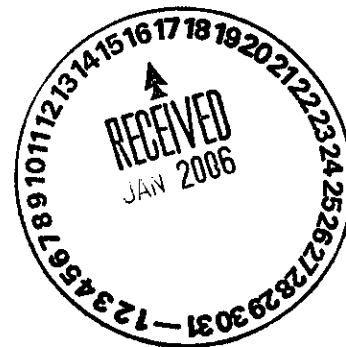
**EDMC**



## Cover Page

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Report Identification Number: 06I-0133-01  
Subcontract Number: 0000X-BO-G0058-B-Mod#4  
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / R303M0 J451  
Payroll#: 73513



### Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
11 Jan 2006	J10RR6	06I00925	NMAM 7300M	G060D00V	G WIPE
11 Jan 2006	J10RR7	06I00926	NMAM 7300M	G060D00V	G WIPE
11 Jan 2006	J10RR8	06I00927	NMAM 7300M	G060D00V	G WIPE

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Name: Lisa M. Reid  
Title: Chemist  
Date: January 16, 2006



## Case Narrative Page

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Report Identification Number: 06I-0133-01  
Subcontract Number: 0000X-BO-G0058-B-Mod#4  
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / R303M0 J451  
Payroll#: 73513

**General Set Information:** There are 4 samples in set 06I-0132-02 and 3 samples in set 06I-0133-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

**Method Summary:** Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

**Sample Preparation:** All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**Holding Times:** The holding times were met for both sample preparation and analysis.

**Instrument Calibration:** Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

**Initial and Continuing Calibration Verification Analysis:** Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of  $\pm 10\%$ .

**Initial and Continuing Calibration Blank Analysis:** No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

**Method Blank Analysis:** No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

**Dilution(s):** None

**Laboratory Control Sample and Duplicate Analysis:** One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of  $\pm 20\%$ . The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

**Replicate Analysis:** One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

**Flagging Codes:** None

**Nonconformance/Corrective Action Report (NC/CAR):** N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu\text{g}/\text{sample}$ ) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu\text{g}/\text{L}$ )

B = Concentration factor from sample preparation

=  $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

**Miscellaneous Comments:** None



## Report Page

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Report Identification Number: 06I-0133-01  
Subcontract Number: 0000X-BO-G0058-B-Mod#4  
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / R303M0 J451  
Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Cadmium µg/sample		Lead µg/sample	
J10RR6	06I00925	13 Jan 2006	<0.01	U	<0.07	U	<2.	U
J10RR7	06I00926	13 Jan 2006	<0.01	U	<0.07	U	<2.	U
J10RR8	06I00927	13 Jan 2006	<0.01	U	<0.07	U	<2.	U
Limit of Detection (LOD)			0.01		0.07		2.	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



# QC Summary Page

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Report Identification Number: 06I-0133-01  
 Subcontract Number: 0000X-BO-G0058-B-Mod#4  
 Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
 Laboratory Identification Number: DCHM  
 SAF: RC-001 / R303M0 J451  
 Payroll#: 73513

Batch ID: G060D00V

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240031-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
BL-240031-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
QC-240031-1	LCS	Beryllium	µg/sample	10.8	NA	10.0	108.	NA
QC-240031-1	LCS	Cadmium	µg/sample	32.0	NA	30.0	107.	NA
QC-240031-1	LCS	Lead	µg/sample	98.7	NA	100.	98.7	NA
QD-240031-1	LCSD	Beryllium	µg/sample	11.0	10.8	10.0	110.	1.88
QD-240031-1	LCSD	Cadmium	µg/sample	32.7	32.0	30.0	109.	2.09
QD-240031-1	LCSD	Lead	µg/sample	102.	98.7	100.	102.	2.92
BL-240030-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-240030-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
BL-240030-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
QC-240030-1	LCS	Beryllium	µg/sample	10.6	NA	10.0	106.	NA
QC-240030-1	LCS	Lead	µg/sample	105.	NA	100.	105.	NA
QC-240030-1	LCS	Cadmium	µg/sample	32.8	NA	30.0	109.	NA
QD-240030-1	LCSD	Beryllium	µg/sample	10.7	10.6	10.0	107.	1.01
QD-240030-1	LCSD	Lead	µg/sample	108.	105.	100.	108.	2.51
QD-240030-1	LCSD	Cadmium	µg/sample	33.1	32.8	30.0	110.	0.922

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

DataChem Laboratories, Inc.  
 960 West Levoy Drive  
 Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700  
 FAX: (801) 268-9992

Web Page: [www.datachem.com](http://www.datachem.com)  
 E-mail: [lab@datachem.com](mailto:lab@datachem.com)



## QC Summary Page

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MS, MSD Percent Rec. =  $((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$

LCS, LCSD Relative Percent Diff. =  $( (|\text{LCS} - \text{LCSD}|) / ((\text{LCS} + \text{LCSD})/2.0) ) * 100.$

MS, MSD Relative Percent Diff. =  $( (|\text{MS} - \text{MSD}|) / ((\text{MS} + \text{MSD})/2.0) ) * 100.$

LD Relative Percent Diff. =  $( (|\text{Parent} - \text{LD}|) / ((\text{Parent} + \text{LD})/2.0) ) * 100$

06T-033-01.02

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST														
Collector: Yella D. Jones		Company Contact Denise A. Pitts and Henry W. Ruby		Telephone No. 531-1229		Project Coordinator Joan H. Kessner		Data Turnaround						
Payroll #: 73513		Sampling Location 303 M building 300 Area		SPECIAL INSTRUCTIONS All relevant COAs must be provided: R303MO J451		SAF No. RC-001		24 Hour						
Type of Sample: Air and Wipes		Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		ANALYSIS METHOD (SPECIFIC): NIOSH 7300		Method of Shipment FEDEX								
Shipped To: Data Chem Salt Lake City		Preservation (i.e., cooling required, etc.)				Bill of Lading/Air Bill No. 8541 9337 5318								
POSSIBLE SAMPLE HAZARD/REMARKS Be Pb, Cd		MATRIX A - AIR W1 - WIPE X - OTHER												
Special Handling and/or Storage NA														
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (sq ft)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cadmium Wipe	Cadmium Airborne	Other	
JTORR6	W1	1-11-06	NA	Blank				X	na	X		na	na	
JTORR7	W1		1000sq ft	NA				X	na	X		na	na	
JTORR8	W1		NA	Blank				X	na	X		na	na	
JTDWN5	A		NA	Blank	na	X	X	X	na	X		na	na	
JTDWV1	A		NA	Blank	na	X	X	X	na	X		na	na	
JTDWN2	A		280L	personal	na	X	X	X	na	X		na	na	
JTDWN3	A	1-11-06	276L	personal	na	X	X	X	na	X		na	na	
				45j										
				1-11-06										

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WCH-SH-202 (08/29/2005)



### CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

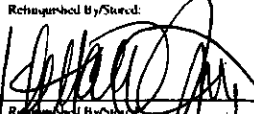

Collector: <b>Yella D Jones</b>	Company Contact <b>Denise A. Pitts and Henry W. Ruby</b>	Telephone No. <b>531-1229</b>	Project Coordinator <b>Joan H. Kessner</b>	Data Turnaround									
Payroll #: <b>73513</b>	Sampling Location <b>303-4dj 1-11-06</b> <b>300 Area,</b> <b>303 M building</b>	SPECIAL INSTRUCTIONS All relevant COAs must be provided: <b>R303MO J451</b>	SAF No. <b>RC-001</b>	24 Hour									
Type of Sample: <b>Air and Wipes</b>	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other _____	ANALYSIS METHOD (SPECIFIC): <b>NIOSH 7300</b>	Method of Shipment <b>FED EX</b>	Bill of Lading/Air Bill No. <b>8541 9337 5318</b>									
Shipped To: <b>Data Chem</b> <b>Salt Lake City</b>	POSSIBLE SAMPLE HAZARD/REMARKS <b>Be, Pb, Cd</b>	MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	NO	na	
Special Handling and/or Storage <b>NA</b>	SAMPLE ANALYSIS												
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area _____ cm <sup>2</sup>	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cadmium Wipe	Cadmium Airborne	na
J10RR6	WI	1-11-06	NA	Blank				X	na	X	X	na	na
J10RR7	WI		100cm <sup>2</sup>	NA		4dj		X	na	X	X	na	na
J10RR8	WI		NA	Blank				X	na	X	X	na	na
J10WN5	A		NA	Blank	na	X	X		4dj			X	na
J10WV1	A		NA	Blank	na	X	X		1-11-06			X	na
J10WV2	A		280L	personal	na	X	X					X	na
J10WV3	A	1-11-06	276L	personal	na	X	X					X	na
				4dj									
				1-11-06									

COPY

FIELD SAMPLE COPY

Enter on line below the first Sample Number from Page One:

J10RR6

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
 Yehad D. Jones	1-11-06 1530	3746 Building, Rm 116, locked cabinet	1-11-06 1530
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
3746 Building Rm 116 locked building			
 Goldie Malhon	01-12-06 1445	RZ Steffler RZ Steff	1-12-06 1445
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
RZ Steffler RZ Steff WCH	1-12-06 1515	Fed Ex	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT/SIGN NAME